



Substitute for form 1449A/PTO  
(Modified)

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **1** of **3**

### Complete if Known

Application Number	10/692,151
Filing Date	October 14, 2003
First Named Inventor	NOLAN et. al.
Art Unit	To be assigned
Examiner Name	To be assigned
Attorney Docket Number	STAN-426CON

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
SH	A1	5,491,074	2/13/1996	Aldwin et. al.	
SH	A2	6,747,135	06/08/2004	Nolan, et al.	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Country Code <sup>2</sup> Kind Code <sup>3</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
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### NON PATENT LITERATURE DOCUMENTS

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SH	C1	ADEY ET. AL. "Identification of Calmodulin-Binding Peptide Consensus Sequences from a Phage-Displayed Random Peptide Library," <i>Gene</i> 169(1):133-4, (1996).	
	C2	APLETALINA ET. AL. "Identification of Inhibitors of Prohormone Convertases 1 and 2 Using a Peptide Combinatorial Library," <i>J. Biol. Chem.</i> 273(41): 133-4, (1998).	
	C3	CAPARON, M.H., DE CIECHI, P.A., DEVINE, C.S., OLINS, P.O. & Lee, S.C. "Analysis of novel streptavidin-binding peptides, identified using a phage display library, shows that amino acids external to a perfectly conserved consensus sequence and to the presented peptides contribute to binding" <i>Mol Divers</i> 1, 241-246 (1996).	
	C4	CHEN, C.T., WAGNER, H. & STILL, W.C. "Fluorescent, sequence-selective peptide detection by synthetic small molecules," <i>Science</i> 279, 851-853, (1998).	
	C5	CHENG ET. AL. "Selection of Peptides that Functionally Replace a Zinc Finger in the Sp1 Transcription Factor by Using a Yeast Combinatorial Library," <i>Proc. Natl. Acad. Sci. USA</i> 94(25):14120-5, (December, 1997).	
	C6	CULL, M.G., MILLER, J.F. & SCHATZ, P.J. "Screening for receptor ligands using large libraries of peptides linked to the C terminus of the lac repressor," <i>Proc. Natl. Acad. Sci. USA</i> 89(5): 1865-1869, (March, 1992).	
	C7	CWIRLA, S.E., PETERS, E.A., BARRETT, R.W. & DOWER, W.J. "Peptides on phage: a vast library of peptides for identifying ligands," <i>Proc. Natl. Acad. Sci. USA</i> 87, 6378-6382, (August, 1990).	
	C8	DEGRAAF ET. AL. "Biochemical Diversity in a Phage Display Library of Random Decapeptides," <i>Gene</i> 128(1): 13-7, (1993).	
	C9	DEVLIN, J.J., PANGANIBAN, L.C. & DEVLIN, P.E. "Random peptide libraries: a source of specific protein binding molecules," <i>Science</i> 249, 404-406, (1990).	
	C10	DYBWAD ET AL. "Identification of New B Cell Epitopes in the Sera of Rheumatoid Arthritis Patients Using a Random Nanopeptide Phage Library," <i>Eur. J. Immunol.</i> 23(12): 3189-93, (1993).	
	C11	GRIFFIN, B.A., ADAMS, S.R. & TSIEN, R.Y. "Specific covalent labeling of recombinant protein molecules inside live cells," <i>Science</i> 281, 269-272, (1998).	
	C12	HANES, J. & PLUCKTHUN, A. "In vitro selection and evolution of functional proteins by using ribosome display," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 94, 4937-4942, (1997).	
	C13	HARRISON, J.L., WILLIAMS, S.C., WINTER, G. & NISSIM, "A Screening of phage antibody libraries," <i>Methods Enzymol.</i> 267, 83-109, (1996).	

Examiner Signature		Date Considered	4/18/07
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SH	C14	JAYAWICKREME ET.AL. "Creation and Functional Screening of a Multi-Use Peptide Library," <i>Proc. Natl. Acad. Sci. USA.</i> 91(5): 1614-8, (1994).	
	C15	KATZ, B.A. "Binding to protein targets of peptidic leads discovered by phage display: crystal structures of streptavidin-bound linear and cyclic peptide ligands containing the HPQ sequence," <i>Biochemistry</i> 34, 15421-15429, (1995).	
	C16	KOIVUNEN, E., WANG, B. & RUOSLAHTI, E. "Phage libraries displaying cyclic peptides with different ring sizes: ligand specificities of the RGD-directed integrins," <i>Biotechnology</i> 13, 265-270, (1995).	
	C17	KRASNOW et al. "Whole animal cell sorting of drosophila embryos", <i>Science</i> . Vol. 251, 81-85 (1991).	
	C18	LAM ET. AL. "Application of 'One Bed One-Compound' Combinatorial Library Methods in Signal Transduction Research," <i>Life Sci.</i> 62(17-18): 1577-83, (1998).	
	C19	LAM, KS. "Application of Combinatorial Library Methods in Cancer Research and Drug Discovery," <i>Anticancer Drug Des.</i> 12(3): 145-67, (1997).	
	C20	LEFEVRE, ET. AL. "Texas Red-X and Rhodamine Red-X, New Derivatives of Sulforhodamine 101 and Lissamine Rhodamine B with Improved Labeling and Fluorescence Properties," <i>Bioconjugate Chem.</i> , 7, 482-489 (1996).	
	C21	LORINCZ et al., "Enzyme-generated intracellular fluorescence for single-cell reporter gene analysis utilizing <i>escherichia coli</i> $\beta$ -glucuronidas", <i>Cytometry</i> 24:321-329 (1996).	
	C22	MATTHEAKIS, L.C., BHATT, R.R. & DOWER, W.J., "An in vitro polysome display system for identifying ligand from very large peptide libraries," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91, 9022-9026, (1994).	
	C23	MATTHEWS, D.J. & WELLS, J.A. "Substrate phage: selection of protease substrates by monovalent phage display," <i>Science</i> 260, 1113-1117, (1993).	
	C24	MISTELI and SPECTOR. "Applications of the green fluorescent protein in cell biology and biotechnology" <i>Nat. Biotechnol.</i> 15:961-964 (1997).	
	C25	MOTTI ET. AL. "Recognition by Human Sera and Immunogenicity of HbsAg Mimotopes Selected form an M13 Phage Display Library," <i>Gene</i> , 146(2): 191-8, (1994).	
	C26	NOLAN et al. "Fluorescence-activated cell analysis and sorting of viable mammalian cells based on $\beta$ -D-galactosidase activity after transduction of <i>Escherichia coli</i> lacZ", <i>Proc. Natl. Acad. Sci.</i> 85:2603-2607 (1988) U.S.A.	
	C27	NOLAN, G. P., FIERING, S. Nicolas, J.F.. & HERZENBERG, L.A. "Fluorescence-activated cell analysis and sorting of viable mammalian cells based on beta-D galactosidase activity after transduction of <i>Escherichia coli</i> lacZ, " <i>Proc. Natl. Acad. Sci. U. S.S. N. No. S. A.</i> 85, 2603-2607, (1988).	
	C28	OLDENBURG, K.R., LOGANATHAN, D., GOLDSTEIN, I.J. SCHULTZ, P.G. & GALLOP, M.A. "Peptide ligands for a sugar-binding protein isolated from a random peptide library," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 89, 5393-5397, (1992).	
	C29	PARMLEY, S.F. & SMITH, G.P. "Antibody-selectable filamentous fd phage vectors: affinity purification of target genes," <i>Gene</i> . 73, 305-318, (1988).	
	C30	PHALIPON ET. AL. "Induction of Anti-Carbohydrate Antibodies by Phage Library-Selected peptides Minlics," <i>Eur. J. Immunol.</i> 27(10), 2620-5, (1997).	
	C31	REBAR, E.J. & PABO, C.O. "Zinc finger phage: affinity selection of fingers with new DNA-binding specificities," <i>Science</i> 263, 671-673, (1994).	
	C32	REBAR, E.J., GREISMAN, H.A. & PABO, C.O. "Phage display methods for selecting zinc finger proteins with novel DNA-binding specificities," <i>Methods Enzymol.</i> 267, 129-149, (1996).	
	C33	ROBERTS, R.W. & SZASTACK, J.W. "RNA-peptide fusions for the in vitro selection of peptides and proteins," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 94, 12297-12302, (1997).	

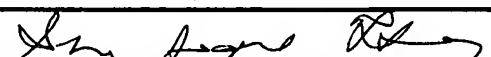
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SH	C34 *	SAGGIO, I. & LAUFER, R. "Biotin binders selected from a random peptide library expressed on phage," <i>Biochem. J.</i> 293, 613-616, (1993).		
	C35 *	SCHATZ, P.J. "Use of peptide libraries to map the substrate specificity a peptide-modifying enzyme: a 13 residue consensus peptide specifies biotinylation in <i>Escherichia coli</i> ," <i>Biotechnology</i> 11, 1138-1143, (1993).		
	C36 *	SCHATZ, P.J., CULL, M.G., MARTIN, E.L. & GATES, C.M. "Screening of peptide libraries linked to lac repressor," <i>Methods Enzymol.</i> 267, 171-191, (1996).		
	C37 *	SCOTT, J.K. & SMITH, G.P. "Searching for peptide ligands with an epitope library," <i>Science</i> 249, 386-390, (1990).		
	C38 *	SCOTT, J.K., LOGANATHAN, D., EASLEY, R.B., GONG, X. & GOLDSTEIN, I.J. "A family of concanavalin A-binding peptides from a hexapeptide epitope library," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 89, 5398-54-2, (1992).		
	C39 *	SMITH, G.P. "Filamentous fusion phage: novel expression vectors that display cloned antigens on the virion surface," <i>Science</i> 228, 1315-1317, (1985).		
	C40 *	SOUTH ET. AL. "Identification of Novel Peptide Antagonists for Von Willebrand Factor Binding to the Platelet Glycoprotein Ib Receptor from a Phage Epitope Library," <i>Thromb. Haemost.</i> 73(1): 144-50, (1995).		
	C41 *	STOUTE ET. AL. "Induction of Humoral Immune Response against <i>Plasmodium falciparum</i> Sporozoites by Immunization with a synthetic Peptide Mimotope Whose Sequence was Derived from Screening a Filamentous Phage Epitope Library," <i>Infect. Immun.</i> 63(3): 934-9, (1995).		
	C42 *	WALLACE, ET. AL. "Selection of Potent Inhibitors of Farnesyl-Protein Trasferase from a Synthetic Tetrapeptide Combinatorial Library," <i>J. Bio. Chem.</i> 271(49), 31306-11, (1996).		
	C43	WELSH and KAY. "Reporter gene expression for monitoring gene transfer", <i>Curr. Opin. Biotechnol.</i> 8:617-622 (1997).		
	C44 *	WENNERMERS et. AL., "Peptide Complexation in Water. Sequence Selective Binding with Simple Dye Molecules," <i>Tetrahedron Letters</i> , 6413-6416, (1994)		
	C45 *	YU, J. & SMITH, G.P. "Affinity maturation of phage-displayed peptide ligands," <i>Methods Enzymol.</i> 267, 3-27, (1996).		
✓	C46	ZLOKARNIK et al. "Quantitation of transcription and clonal selection of single cells with $\beta$ -lactamase as reporter", <i>Science</i> , 279:84-88 (1998).		

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